cartridge.

DOCKET: TU999050

WIRELESS SECURITY ACCESS MANAGEMENT

FOR A PORTABLE DATA STORAGE CARTRIDGE

ABSTRACT

A portable security system mounted in a portable data 5 storage\cartridge for managing access by users to the cartridge. A programmable computer processor mounted in the cartridge is powered by \and receives data from and transmits data to a data storage drive via a wireless RF interface, when mounted in the drive. A usen table has a unique user identifier for each 10 authorized user\and lists permitted activities the user is authorized to conduct with respect to the data storage cartridge. Preferably, a private key, public key algorithm is employed. Thus, the user identifier comprises a user symbol and a user decrypting sender public key. A user authentication message from 15 the authorized user is \encrypted by a sender private key and a receiver public key, in accordance with a predetermined algorithm, employing the Δ ryptographic algorithm. cryptographic algorithm decrypts the user authentication message employing a receiver private\key and the sender public key, 20 whereby the user authentication message is known to have come Then, the security system algorithm grants access from the user.

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to the user for the listed activities with respect to the